

Title (en)
STEERING APPARATUS

Title (de)
LENKVORRICHTUNG

Title (fr)
APPAREIL DE CONDUITE

Publication
EP 3715216 A1 20200930 (EN)

Application
EP 20165455 A 20200325

Priority
JP 2019062604 A 20190328

Abstract (en)
A steering apparatus (10) includes: a mechanism that turns a turning wheel (16); a first motor that generates a driving force that is given to the mechanism; and a control device (50). The control device includes: a first computation circuit (62) that computes a first limiting value to which an electric current to be supplied to the first motor is limited in a particular situation; a determination circuit (85) that determines whether the turning wheel is in touch with an obstacle; a second computation circuit (91) that computes a second limiting value to which the electric current to be supplied to the first motor is limited when the determination circuit determines that the turning wheel is in touch with the obstacle; and a third computation circuit (93) that computes the threshold to be used by the determination circuit, based on a smaller limiting value of the first limiting value and the second limiting value.

IPC 8 full level
B62D 5/04 (2006.01)

CPC (source: CN EP US)
B62D 5/006 (2013.01 - US); **B62D 5/046** (2013.01 - CN); **B62D 5/0469** (2013.01 - EP); **B62D 5/0481** (2013.01 - CN US);
B62D 6/008 (2013.01 - US); **H02P 29/60** (2016.02 - CN); **B62D 5/0409** (2013.01 - US); **B62D 5/0424** (2013.01 - US); **B62D 5/0496** (2013.01 - EP);
B62D 6/008 (2013.01 - EP); **G07C 5/0816** (2013.01 - US)

Citation (applicant)
JP 2006111099 A 20060427 - NISSAN MOTOR

Citation (search report)
• [AD] JP 2006111099 A 20060427 - NISSAN MOTOR
• [A] DE 10261001 A1 20040708 - BOSCH GMBH ROBERT [DE]
• [A] EP 1035001 A2 20000913 - TRW INC [US]

Cited by
EP4011750A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3715216 A1 20200930; **EP 3715216 B1 20210922**; CN 111746627 A 20201009; JP 2020158070 A 20201001; JP 7205344 B2 20230117;
US 11325642 B2 20220510; US 2020307686 A1 20201001

DOCDB simple family (application)
EP 20165455 A 20200325; CN 202010207444 A 20200323; JP 2019062604 A 20190328; US 202016825328 A 20200320